

United States Patent and Trademark Office

UNITED STATES DEPARTMENT OF COMMERCE United States Patent and Trademark Office Address: COMMISSIONER FOR PATENTS P.O. Box 1450 Alexandria, Virginia 22313-1450 www.usplo.gov

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/521,950	03/09/2000	Sunao Tabata	016907/1061	2947
22428	7590 01/15/2004		EXAMINER	
FOLEY AND LARDNER			BURLESON, MICHAEL L	
SUITE 500 3000 K STRI	EET NW		ART UNIT	PAPER NUMBER
WASHINGTON, DC 20007			2626	1
			DATE MAILED: 01/15/2004	b

Please find below and/or attached an Office communication concerning this application or proceeding.

	Application No.	Applicant(s)	
	09/521,950	TABATA ET AL.	
Office Action Summary	Examiner	Art Unit	
	Michael Burleson	2626	_
The MAILING DATE of this communicat Period for Reply	tion appears on the cover sheet wi	th the correspondence address	
A SHORTENED STATUTORY PERIOD FOR THE MAILING DATE OF THIS COMMUNICA - Extensions of time may be available under the provisions of 37 after SIX (6) MONTHS from the mailing date of this communic. - If the period for reply specified above is less than thirty (30) da - If NO period for reply is specified above, the maximum statuto. - Failure to reply within the set or extended period for reply will, - Any reply received by the Office later than three months after the earned patent term adjustment. See 37 CFR 1.704(b). Status	TION. 7 CFR 1.136(a). In no event, however, may a ration. 1ys, a reply within the statutory minimum of third 1yr period will apply and will expire SIX (6) MON 1y statute, cause the application to become AE	eply be timely filed y (30) days will be considered timely. THS from the mailing date of this communication. ANDONED (35 U.S.C. § 133).	
1) Responsive to communication(s) filed o	n		
2a) This action is FINAL . 2b)	☑ This action is non-final.		
3) Since this application is in condition for closed in accordance with the practice u			
Disposition of Claims	•		
4) ☐ Claim(s) is/are pending in the ap 4a) Of the above claim(s) is/are v 5) ☐ Claim(s) is/are allowed. 6) ☐ Claim(s) <u>1-14</u> is/are rejected. 7) ☐ Claim(s) <u>15-18</u> is/are objected to. 8) ☐ Claim(s) are subject to restriction	vithdrawn from consideration.		
Application Papers			
9) The specification is objected to by the E 10) The drawing(s) filed on is/are: a) Applicant may not request that any objection Replacement drawing sheet(s) including the 11) The oath or declaration is objected to by	accepted or b) objected to n to the drawing(s) be held in abeyar correction is required if the drawing	ce. See 37 CFR 1.85(a). (s) is objected to. See 37 CFR 1.121(d).	
Priority under 35 U.S.C. §§ 119 and 120			
12) △ Acknowledgment is made of a claim for a) △ All b) ☐ Some * c) ☐ None of: 1. ☐ Certified copies of the priority dodd of a claim for copies of the priority dodd of a claim for copies of the certified copies of the application from the International * See the attached detailed Office action for a claim for copies a specific reference was included in 37 CFR 1.78. a) ☐ The translation of the foreign languated acknowledgment is made of a claim for copies and acknowledgment is made of a claim for copies and acknowledgment is made of a claim for copies and acknowledgment is made of a claim for copies and acknowledgment is made of a claim for copies and acknowledgment is made of a claim for copies and acknowledgment is made of a claim for copies and acknowledgment is made of a claim for copies of the priority dod o	cuments have been received. cuments have been received in A he priority documents have been Bureau (PCT Rule 17.2(a)). or a list of the certified copies not domestic priority under 35 U.S.C. in the first sentence of the specific age provisional application has b domestic priority under 35 U.S.C.	pplication No received in this National Stage received. § 119(e) (to a provisional application ation or in an Application Data Shee een received. §§ 120 and/or 121 since a specific	et.
Attachment(s)			
 Notice of References Cited (PTO-892) Notice of Draftsperson's Patent Drawing Review (PTO-3) Information Disclosure Statement(s) (PTO-1449) Paper 	.948) 5) Notice of I	Summary (PTO-413) Paper No(s) Informal Patent Application (PTO-152)	

Art Unit: 2626

DETAILED ACTION

Priority

Acknowledgment is made of applicant's claim for foreign priority under 35
 U.S.C. 119(a)-(d).

Information Disclosure Statement

2. The information disclosure statement (IDS) was submitted on March 09, 2000. The submission is in compliance with the provisions of 37 CFR 1.97. Accordingly, the information disclosure statement is being considered by the examiner.

Drawings

3. The drawings are objected to because in figures 3 part b, 7 parts b, g, I and p and 20; "BLANKING" should be – BLACKING--. A proposed drawing correction or corrected drawings are required in reply to the Office action to avoid abandonment of the application. The objection to the drawings will not be held in abeyance.

Specification

4. The disclosure is objected to because of the following informalities: page 25 line 8: "cover conversion", should read, —color conversion--, and page 29 line 3, "CUR" should read —UCR--.

Appropriate correction is required.

Page 3

Art Unit: 2626

Claim Rejections - 35 USC § 112

- 5. The following is a quotation of the second paragraph of 35 U.S.C. 112:
 The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.
- 6. Claims 2 and 4-13 are rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention.
- 7. Regarding claim 2, line 15 " decoding means for decoding the second color image signal compressed by the compression means ", however, the original specification and in particular figure 1, applicant discloses decoding the third color image signal and not the second color image and it is further unclear how and when the second color image is decoded.
- 8. Regarding claim 4, the claim recites the limitation "a color image signal" and " the color image signal " in lines 1,6 and 8. There is insufficient antecedent basis for this limitation in the claim.
- 9. Regarding claims 4-13, it is unclear which embodiment is being used. The independent claim 1 is geared toward the first embodiment in the specification and claims 4-13, which are dependent on claim 1, are geared toward the second embodiment in the specification. Furthermore, there is nothing in the specification combining any of the embodiments.

Application/Control Number: 09/521,950 Page 4

Art Unit: 2626

Claim Rejections - 35 USC § 103

- 10. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 11. Claims 1,2,3 and 14 are rejected under 35 U.S.C. 103(a) as being unpatentable over Satoshi Tanio (US 5,726,778) in view of Toda et al (US 6,476,924).
- 12. Regarding claim 1, Tanio teaches of an image processing apparatus (page 1 line 1) that has a color conversion circuit (page5 lines 35-36) for converting a first color image signal that does not contain black (page 6 lines 18-24 and figure 2A), a UCR operating process for adding a black component (page 25-30). Tanio fails to teach of a compression means used on the basis of a frequency conversion system. Toda et al. teaches of a compression scheme including frequency conversion (page 4 lines 55-56). Tanio could be modified to have a compression scheme including frequency conversion of Toda et al. to limit memory space. This modification would have been obvious to one of ordinary skill in the art at the time of the invention to reduce memory load of the color image signal data.
- 13. Regarding claim 2, as best understood by the claim language, Toda et al. teaches of a decoder that decodes the compressed image data (page 8 lines 1-3) and

Art Unit: 2626

an image forming means on a predetermined medium based on the decoding means (page 16 lines 37-40; 42-45 and figure 20).

Page 5

- 14. Regarding claim 3, Tanio teaches that the first color image signal entering the color conversion circuit is RGB signal (figure 2A), the second color image signal, leaving the color conversion circuit and entering the masking color processing circuit is CMY (figure 2A) and the third color image signal, which leaves the masking color processing circuit is CMYK (page 6 lines 24-30).
- 15. Claim 14 is rejected under 35 U.S.C. 103(a) as being unpatentable over Owada et al. (US 6,108,098) in view of Hayashi et al. (US 2001/0048530). Owada et al. teaches of an image processing apparatus that comprises of an image recognition circuit, which recognizes different types of images based on predetermined image data (figure 2 and column 5 lines 48-55; column 7 lines 30-35). Owada et al. fails to teach of a change in the processing of an image based on the recognized type of image. Hayashi et al. teaches that image processing is changed according to the type of images scanned and a determination is made on how to process the image (page 9 column 2 paragraph [0157]). Owada et al. could be modified to process an image based on the recognized type of image. This modification would have been obvious to one of ordinary skill in the art at the time of the invention to produce a better quality image.

Application/Control Number

Art Unit: 2626

Allowable Subject Matter

16. Claims 4-13 would be allowable if rewritten to overcome the rejection(s) under 35 U.S.C. 112, second paragraph, set forth in this Office action and to include all of the limitations of the base claim and any intervening claims.

17. Claims 15-18 objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.

Conclusion

Any inquiry concerning this communication should be directed to Michael Burleson whose telephone number is (703) 305-8683 and fax number is (703) 746-3006. The examiner can normally be reached Monday thru Friday from 8:00 a.m. – 4:30p.m. If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Kimberly Williams can be reached at (703) 305-4863

Michael Burleson Patent Examiner

Art Unit: 2626

Page 7

Art Unit 2626

Mlb

January 10, 2004

KIMBERLY WILLIAMS